

RECREATIONAL WATER

MATERIAL SAFETY DATA SHEET

Product Name:	POOL TIME GRANULAR DRY CHLORINATOR	Date Prepared:	09/01/94
Product Number:	RPTM22112	Supersedes:	08/31/94

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	RPTM22112
Product Use:	Swimming Pool Shock EPA REG. # 67262-11
Product Description:	POOL TIME GRANULAR DRY CHLORINATOR
Chemical Family:	Hypochlorite
Technical Name:	Calcium Hypochlorite
Manufacturer/Supplier:	Emergency Telephone Numbers:
RECREATIONAL WATER P.O. BOX 887 SCOTSDALE, GEORGIA 30079 800-949-SWIM (7946)	CHEMTREC (800)424-9300 Health (303)623-5716 Prepared: REGULATORY AFFAIRS

SECTION 2 - HAZARDOUS COMPONENTS

COMPONENT	WT%	CAS Number
Calcium Hypochlorite	70.0 %	7778-54-3
Calcium Chlorate	5.0 %	10137-74-3
Calcium Chloride	5.0 %	10043-52-4
Calcium Carbonate	5.0 %	471-34-1
Calcium Hydroxide	5.0 %	1305-62-0

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER: Highly Corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or safety glasses and rubber gloves when handling this product. Avoid breathing dust. Remove and wash contaminated clothing before use.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: DANGER: Highly Corrosive. Causes eye damage. Do not get in eyes.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: DANGER: Highly Corrosive. Causes skin damage. Do not get on skin.

EFFECTS OF OVEREXPOSURE - INHALATION: Irritating to nose and throat. Avoid breathing dust or vapors.

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SECTION 3 - HAZARDS IDENTIFICATION - continued

EFFECTS OF OVEREXPOSURE - INGESTION: May be fatal if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: There are no known chronic hazards.

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Inhalation, Ingestion, Eye Contact

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: If contact with eyes occurs: Immediately flush with cold water for at least 15 minutes. Then get immediate medical attention.

FIRST AID - SKIN CONTACT: If contact with skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

FIRST AID - INHALATION: If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.

FIRST AID - INGESTION: If swallowed: Drink large amounts of water. Do not induce vomiting.

Avoid alcohol. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician or poison control center. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5 - FIRE FIGHTING MEASURES

Flashpoint and Method:	None		
Flammable Limits:	LEL: N.A.	UEL: N.A.	
Autoignition Temperature:			

EXTINGUISHING MEDIA: Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product if heated by an outside source to temperatures above 350F, will undergo vigorous self-sustaining decomposition with the evolution of heat, dense noxious gases and large amounts of oxygen. A fire of great intensity may result. Any spilled material should be considered contaminated. Neutralize to a non-oxidizing material for safe disposal. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. If the material is damp, it should be neutralized to a non-oxidizing material for safe disposal.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Using appropriate protective clothing and safety equipment, contain spilled material. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not use floor sweeping compounds to clean up spills. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form. Do not transport wet or damp material. Keep product out of sewers, watersheds and water systems. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Dispose of according to local, state and federal regulations.

SECTION 7 - HANDLING AND STORAGE

HANDLING: STRONG OXIDIZING AGENT: Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water.

STORAGE: Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment. Do not store above 125 F.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	Source	Value
Calcium Hypochlorite	OSHA TWA ACGIH TLV	Not Established Not Established
Calcium Chlorate	OSHA TWA ACGIH TLV	Not Established Not Established
Calcium Chloride	OSHA TWA ACGIH TLV	Not Established. Not Established.
Calcium Carbonate	OSHA TWA ACGIH TLV	Not Established Not Established
Calcium Hydroxide	OSHA TWA ACGIH TLV	5 mg/m3 5 mg/m3

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION - continued

ENGINEERING CONTROLS: General room ventilation plus local exhaust should be used to maintain exposure below TLV.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Wear rubber gloves when handling this product. Avoid contact with skin.

EYE PROTECTION: Wear goggles or safety glasses with side shields when handling this product.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

HYGIENIC PRACTICES: Remove and wash contaminated clothing before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	Not Applicable
Specific Gravity:	Not Applicable.
Solubility:	18g/100g Water
pH:	11.0 -
Melting Point:	350 F
Boiling Point:	Not Applicable.
Viscosity:	Not Applicable.
Vapor Density (Air = 1):	Is heavier than air
Evaporation Rate (n-Butyl Acetate = 1):	Is slower than Butyl Acetate
Odor:	Chlorine
Appearance:	White
Physical State:	Solid
Partition Coefficient (n-octanol/water):	Not Available.

SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal conditions.

CONDITIONS TO AVOID: High Temperature. Poor Ventilation. Contamination. Moisture / High Humidity.

INCOMPATIBILITY: Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material. Ammonia, urea, or similar nitrogen containing compounds. Inorganic reducing compounds. Floor sweeping compounds. Other swimming pool/spa chemicals in their concentrated forms.

HAZARDOUS DECOMPOSITION PRODUCTS: Halogen containing gases can be produced.

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SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Toxicological studies indicate this product to be corrosive to skin and eyes. It is not a mutagen or teratogen. It is not listed as a carcinogen by OSHA, EPA, NTP, or IARC.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed, by storage or disposal or cleaning of equipment.

SECTION 14 - TRANSPORTATION INFORMATION**DOT:**

Proper Shipping Name:	Calcium Hypochlorite Hydrated
Hazard Class:	5.1
Identification Number:	UN 2880
Packing Group:	II
RQ:	10 lbs.

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SECTION 15 - REGULATORY INFORMATION

FEDERAL:

OSHA (Occupational Safety and Health Act):

Product is hazardous by definition of the Hazard Communication Standard.

TSCA (Toxic Substance Control Act):

This product or its components are listed on the TSCA Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

This product or its components are not subject to export notification.

FIFRA (Federal Insecticide, Fungicide, Rodenticide Act):

This product is a registered pesticide.

CERCLA (Comprehensive Response, Compensation and Liability Act):

Calcium Hypochlorite

Category A

RQ 10 lbs.

SARA (Superfund Amendments and Reauthorization Act):

SARA 313: This product or its components are not listed.

SECTION 16 - OTHER INFORMATION

NFPA: Health: 3 Flammability: 1 Reactivity: 2

HMIS: Health: 3 Flammability: 1 Reactivity: 2

Personal Protection: B

REVISION SUMMARY:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.